



Planetary Analog Site Evaluation Card

Last Rated: 9 Nov 2007 (Bluethmann, Heverly, T. Smith)

SITE Moses Lake Sand Dunes, WA

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LOCATION **Country:** USA **State:** Washington
Coordinates: 47°04'N, 119°17'W **Elevation:** +1175ft.
Nearest Airfield: Spokane, WA **Distance:** 100 miles
Map:



DESCRIPTION:

Environment: Sand Dune
Facility: Airport in town used for training C130 possible
Crew: N/A
Experiments: Surface Ops
Vehicles: 4WD
Open: Year-round

HISTORY

NASA Involvement:
External Partners:

FIGURES OF MERIT

Site value: 1 (low) to 5 (high)

Aspect	Details	Comment	1-5
EXPLORATION			
Environment	T, P, RH, Insolation, Radiation,...	?	?
Topography	Available Area / Traverse Range	3000 acres (dune)	5
	Slopes	Varied	5
Terrain	Block/Particle Size & Shape Distrib	Sand with some gravel	3
	Physical Properties	mostly loose sand.	3
	Vegetation	limited amounts	5
Subsurface	Structure (Layered, Massive,...)	sand dune	3
SCIENCE			
Geology	Composition (Mineral., Geochem.)	sand dune	2
	Features (Surface, Subsurface)	?	?
	Processes (Impact, Volcanism,...)	Wind	?
Biology	Astrobiology (Extremophiles,...)	?	?
ACCESS			
Logistics	Airport (Major)	Spokane 100 miles	2
	Road	Paved within 0.25 mile	4
	Logistics Infrastructure Base Site	None at site	3
	Water & Food	<10 minute	5
	Power	Need to provide	3
	Comms	Need to provide	3
	Lodging	<10 minute	5
	Vehicles	4WD required	?
	Waste Disposal	Need to provide	4
	Weather (T Range, Rain?)	Ave 55-81F dry	5
Safety	Search & Rescue	Site near city	4
	Medical Support, Hospital	Site near city	4
Security	Controlled Access	None	2
E/PO - PA	Education	?	?
	Public Outreach - Visual Appeal	?	5
	Media	?	?
Permits	Access & Land Use Permits	None needed?	4
Partners	Partner Organizations / Leveraging	Sheriff's department	4
References	Maps, GIS Data, Publications	Grant County	4

EVALUATION SUMMARY

3000 acre sand dune. Soft soil with some mixed gravel. Rolling terrain with varied slopes. Lightly vegetated. Non-secure site. Far from airport very near to city.